

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
11 August 2005 (11.08.2005)

PCT

(10) International Publication Number  
**WO 2005/072797 A1**

(51) International Patent Classification<sup>7</sup>: **A61M 5/315**

(21) International Application Number:  
PCT/AU2005/000106

(22) International Filing Date: 28 January 2005 (28.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
2004900363 28 January 2004 (28.01.2004) AU

(71) Applicant (for all designated States except US): **UNI-TRACT SYRINGE PTY LTD** [AU/AU]; 945 Wellington Street, West Perth, W.A. 6005 (AU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KAAL, Joseph**  
**Hermes** [AU/AU]; 41 James Street, Morpeth, New South

Wales 2321 (AU). **THORLEY, Craig Stephen** [AU/AU];  
19 George Street, Largs, New South Wales 2320 (AU).  
**JUDD, Damien** [AU/AU]; 2/8 Banksia Court, Heathmont,  
Victoria 3135 (AU).

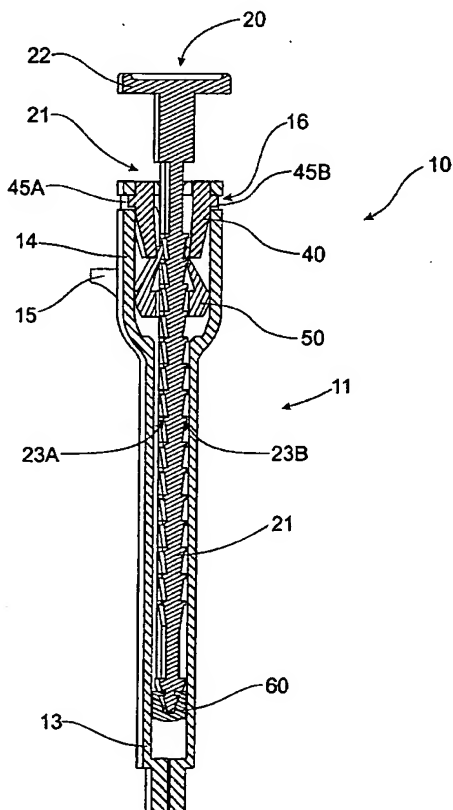
(74) Agent: **FISHER ADAMS KELLY**; Level 13, AMP Place,  
10 Eagle Street, Brisbane, Queensland 4000 (AU).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: **ONE USE SYRINGE WITH RATCHET ON PLUNGER AND PAWL ON BODY**



(57) Abstract: A syringe (10) has a plunger (20), a barrel (11) and a collar (40, 50) with two pawls (42A, 42B). The plunger has two opposed ratchets (23A, 23B) that align with the one each of the pawls and thereby or impede, withdrawal of the plunger during or following depression of the plunger. The barrel has a collar with an inner (50) and an outer member (40) that are incapable of rotation relative with respect to each other. The outer member has the two pawls (42A, 42B) and two fingers that slidably engage opposed guide slots (28) on the plunger to thereby prevent or minimize rotation of the plunger relative to the collar. The inner member of the collar is operable to prevent engagement of the plunger ratchet by the two pawls until the plunger is depressed.